

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-16. (Canceled)

17. (Previously Presented) A method of moulding a reinforced nodal structure, comprising:

depositing a cored reinforcement in and along channels of a nodal mould and across nodes of the nodal mould by repeated passes along the channels to at least partially fill the channels, the cored reinforcement comprising an envelope of strength-giving fibers surrounding a core of expansible material of substantially constant cross section;

closing the mould;

expanding the core of expansible material so as to cause the envelope of strength giving fibers to adapt to a shape of a corresponding portion of the channel; and

curing resin provided around the cored reinforcement; and

providing the reinforced nodal structure comprising a cellular structure formed from a network of walls formed by the strength-giving fibers impregnated with resin.

18. (Previously Presented) The method according to claim 17, wherein the cored reinforcement comprises an expansible foam core surrounded by a braided carbon fiber material.

19. (Previously Presented) The method according to claim 17, wherein depositing the cored reinforcement comprises overfilling the channels, and wherein closing the mould comprises compressing the cored reinforcement.

20. (Previously Presented) The method according to claim 17, wherein depositing the cored reinforcement comprises moving a feeder head relative to the mould and controlling a feed of the cored reinforcement under computer numerical control (CNC).

21. (Previously Presented) The method according to claim 20, further comprising severing lengths of the cored reinforcement in the feeder head under CNC.

22. (Previously Presented) The method according to claim 17, wherein depositing the cored reinforcement further comprises thermally tacking a layer of cored reinforcement to a preceding layer of cored reinforcement.

23. (Previously Presented) The method according to claim 17, further comprising introducing at least one insert in the mould to locally divert the reinforcement, to provide localized strengthening, and/or to provide a mounting point.

24-33. (Canceled)

34. (Previously Presented) The method according to claim 17, further comprising incorporating fabric inserts into the mould by at least one member selected from the group of before, during and after depositing the cored reinforcement of substantially constant cross section in the mould.

35. (Previously Presented) The method according to claim 34, wherein incorporating fabric inserts into the mould comprises incorporating fabric inserts along the channels of the nodal mould and across the nodes of the nodal mould, wherein the fabric inserts extend in a longitudinal direction along at least one cored reinforcement of substantially constant cross section in the channel.

36. (Previously Presented) The method according to claim 35, wherein at least one fabric insert is positioned over a plurality of cored reinforcements of substantially constant cross section.

37. (Previously Presented) A method of moulding a reinforced nodal structure, comprising:

depositing a cored reinforcement in and along channels of a nodal mould and across the nodes formed in the nodal mould by repeated passes along the channels to at least partially fill the channels;

incorporating at least one insert in addition to the cored reinforcement along the channels of the nodal mould;

closing the mould;

expanding an expansible core portion of the cored reinforcement, the expansible core portion being of substantially constant cross section, so as to cause an envelope of strength giving fibers surrounding the expansible core portion to adapt to a shape of a corresponding portion of the channel; and

curing resin provided around the cored reinforcement, wherein the at least one insert extends in a longitudinal direction along at least one cored reinforcement in the channel.

38. (Previously Presented) The method of claim 37, wherein the at least one insert is a fabric insert that extends across a node formed in the nodal mould.

39. (Previously Presented) The method according to claim 38, wherein the at least one fabric insert is incorporated according to at least one member selected from the group of before, during and after depositing the cored reinforcement of substantially constant cross section in the mould.

40. (Previously Presented) The method of claim 38, wherein the at least one fabric insert is positioned over a plurality of cored reinforcements of substantially constant cross section.

41-42. (Canceled)

43. (Previously Presented) The method of claim 17, wherein expanding the core of expansible material comprises controlling expansion of the core of expansible material based on a pressure or a temperature in the mould.

44. (Previously Presented) The method of claim 43, wherein controlling expansion of the core of expandible material comprises reducing a pressure in the mould.

45. (Previously Presented) The method of claim 43, wherein controlling expansion of the core of expandible material comprises increasing a temperature in the mould.

46. (Previously Presented) The method of claim 17, wherein expanding the core of expandible material comprises adjusting a shape of the envelope of strength-giving fibers to correspond to an internal shape of a corresponding portion of the channels in which the cored reinforcement is deposited.

47-48. (Canceled)

49. (Previously Presented) The method of claim 46, wherein the envelope of strength-giving fibers comprises a braided carbon fiber material.

50. (Canceled)

51. (Previously Presented) The method of claim 46, wherein the core of expanded material is expanded until shape of the envelope of strength-giving fibers is substantially conformal to the channels in which the cored reinforcement is deposited.

52. (Previously Presented) The method of claim 51, wherein the channels in which the cored reinforcement is deposited are of non-constant cross section, and wherein expanding the core of expansible material and curing resin provided around the reinforcement provides a reinforced nodal structure with a non-constant cross section.

53. (Previously Presented) The method of claim 51, wherein expansion of the core of expansible material is limited by the internal shape of the corresponding portion of the channel.

54-60. (Canceled)

61. (Previously Presented) The method of claim 37, wherein expanding the expansible core portion of the cored reinforcement comprises controlling expansion of the expansible core portion based on a pressure in the mould.

62. (Previously Presented) The method of claim 37, wherein expanding the expandible core portion of the reinforcement comprises adjusting a shape of the envelope of strength-giving fibers to correspond to an internal shape of a corresponding portion of the channels in which the cored reinforcement is deposited.

63. (Previously Presented) The method of claim 62, wherein the expandible core portion is expanded until the shape of the envelope of strength-giving fibers is substantially conformal to the channels in which the reinforcement is deposited.

64. (Previously Presented) The method of claim 63, wherein the channels in which the reinforcement is deposited are of non-constant cross section, and wherein expanding the expandible core portion and curing resin provided around the reinforcement provides a reinforced nodal structure with a non-constant cross section.

65. (Canceled)